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... For example, aggressive pre-existence-based **de-virtualization** will de-virtualize some method calls based on the shape of the ... David Grove, Darren Hart, and Mark Stoodley, "Design and Implementation of a Comprehensive Real-time Java **Virtual Machine**," Proceedings of the ...

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... application. To this class of optimizations belong such well-known techniques, see for example [16, 17, 15], as method call **de-virtualization** and class in-lining. ... Ive, A.: Towards an embedded real-time java **virtual machine**. Licentiate ...

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... to the next **virtual** branch (tries a conditional branch with a different PC) 6. This goes on in a loop till the conditional branch predictor predicts some branch as taken. The above algorithm is inspired by receiver class predication and devirtualization. **De- virtualization** requires ...

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... Various kinds of program type analysis (eg [6, 20, 21]) enable the **de-virtualization** of provably monomorphic calls (calls with only one target ... are faster than monomorphic **virtual** ones may not always hold in practice due to implementation features, at the **virtual machine** level or ...

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